

# FACT SHEET

## CALIFORNIA ENERGY COMMISSION Efficiency Division

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### CERTIFICATION AND VERIFICATION OF LIGHTING CONTROLS

The 2013 Building Energy Efficiency Standards (Energy Standards) provisions related to lighting controls specifically address:

- Certification and Verification Requirements
- Certificate of Installation Requirements
- Acceptance Testing Requirements

#### **Certification and Verification Requirements**

Both the Title 20 Appliance Efficiency Regulations and the 2013 Energy Standards refer to two categories of lighting controls:

1. *Self-contained Lighting Control* -- a unitary and independent lighting control module, in which no additional components are required, to provide a fully functional lighting control (often called a “device”).
2. *Lighting Control System* -- involves the control of lighting using two or more components that are required to be field-installed, in order to provide all features and capabilities of a fully functional and compliant lighting control.

*Self-contained Lighting Controls* are regulated by the Title 20 Appliance Efficiency Regulations. They must be certified to, and listed in, the California Energy Commission’s Appliance Efficiency Database (see <http://www.appliances.energy.ca.gov/AdvancedSearch.aspx>). Self-contained lighting controls can be verified for compliance with the 2013 Energy Standards by checking the Appliance Efficiency Database.

*Lighting Control Systems* must meet the requirements of Section 110.9, and comply with the Lighting Control Installation Certificate Requirements found in Section 130.4(b), of the 2013 Energy Standards.

*Lighting Control Systems* do not have to be certified to, nor be listed in, the Title 20 Appliance Efficiency Database. Note that some self-contained devices may also serve as components of a system, or may have additional functions when connected to a system. In these cases, the self-contained devices are expected to be certified for the functions they perform as a stand-alone device, but do not require additional certification to be installed as part of a lighting control system.

### Examples of Lighting Control Systems:

1. A typical lighting control system will consist of two or more components, both required for the control system to operate. For example, a “field-assembled networked lighting control system,” consisting of a photo sensor working in conjunction with a separate controller and remote relay component, may make a fully functional and compliant lighting control system.
2. An Energy Management Control System, installed to function as a lighting control and functionally meeting all applicable requirements of each application for which it is installed, may make a fully functional and compliant lighting control system.

For more information on requirements of Self-contained Lighting Controls and Lighting Control Systems, see the 2013 Energy Standards Section 110.9 and 2013 Nonresidential Compliance Manual Sections 5.2.2, 5.2.3, and 5.2.4.

### Certificate of Installation Requirements

When a *Lighting Control System* (including an Energy Management Control System) has been installed to comply with the lighting control requirements in the 2013 Energy Standards, a Certificate of Installation NRCI-LTI-02-E must be completed and submitted to the enforcing agency, to facilitate inspection.

When *Self-contained Lighting Control* devices that have been certified to the Appliance Efficiency Database are installed, a Certificate of Installation NRCI-LTI-02-E is not required.

Lighting Control Certificate of Installation requirements can be found in Section 130.4(b) of the 2013 Energy Standards.

### Acceptance Testing Requirements

Acceptance Testing is required for both *Self-contained Lighting Controls* and *Lighting Control Systems* to ensure that equipment, controls, and systems operate as required by the 2013 Energy Standards. Acceptance Testing must be performed by a certified Lighting Controls Acceptance Test Technician. For more information on the Acceptance Test Technician Certification Program, see <http://www.energy.ca.gov/title24/attcp/>

### Help With the 2013 Energy Standards

For assistance with understanding or locating information in the 2013 Energy Standards, contact the Energy Standards Hotline at: (800) 772-3300 (toll-free in California); (916) 654-5106 (outside California); or, via email at [title24@energy.ca.gov](mailto:title24@energy.ca.gov)

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